UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/689,199	10/20/2003	George P. Teitelbaum	31132.848	4421
46333 HAYNES AND	7590 04/30/200 D BOONE, LLP	EXAMINER		
901 Main Street			SWIGER III, JAMES L	
Suite 3100 Dallas, TX 75202			ART UNIT	PAPER NUMBER
			3733	
			MAIL DATE	DELIVERY MODE
			04/30/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/689,199	TEITELBAUM ET AL.			
		Examiner	Art Unit			
		JAMES L. SWIGER	3733			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)[\	Responsive to communication(s) filed on <u>12 Fe</u>	ahruary 2008				
•		action is non-final.				
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
٥/١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠	4)⊠ Claim(s) <u>26-30 and 33-35</u> is/are pending in the application.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
	6)⊠ Claim(s) <u>26-30 and 33-35</u> is/are rejected.					
· ·	Claim(s) is/are objected to.					
•	Claim(s) are subject to restriction and/o	r election requirement.				
Applicati	ion Papers					
9)□	The specification is objected to by the Examine	r				
10)⊠ The drawing(s) filed on <u>20 October 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
10/2	Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic 3) Inform	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 26 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Sava (US Patent 5,658, 286), Gelbard (US Patent 5,397,363).

Sava discloses a spinal fixation device comprising first and second bone anchors (14, and see Fig. 2B) each having a proximal and distal (tapered end towards bone) ends. The head of the bone screws also have a portal extending therethrough (the U-shaped portal at the proximal end). Sava also discloses a cross bar (18) that connects a first support structure to a second support structure (see construct in Fig. 2B), and wherein the structure is considered subcutaneous, as it is implantable during the surgery. The cross bar also contains a media that is hardenable (28, and shown 34), and wherein the hardenable media may be made of various polymers as known in the art (see Col. 1) and also disclosed in the art (See Col. 6, lines 52-67).

Sava discloses the claimed invention except for a support structure that connects a first and second bone anchors and cross ties to connect the supports. Gelbard discloses support structures (36) that are able to connect the bone anchor portals (the punctured holes fit into the portal of the proximal end of the bone anchors) and a cross

bar (see also Col. 4, lines 18-36). Gelbard also discloses what may be considered cross ties (37), as they are also able to help fix a rod into position (Col. 4, lines 37-55). It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the spinal device of Sava having at least the support structure and cross ties of Gelbard to better secure and lock the device in use.

Claims 30 and 35 is rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Sava '286 and Gelbard '363 as applied to claim 26 above, and further in view of Buton (US Patent 4,743,260). The combination of Sava '286 and Gelbard '363 disclose the claimed invention except for more specifically, a cross bar with apertures for receiving a support and reinforcing fibers. Burton discloses holes in the cross bar (19) that are adapted to aid the cross bar to connect to the bone anchor. Burton further discloses multiple fibers that act as reinforcement (See Col. 4, lines 15-53). It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of the combination of Sava '286 and Gelbard '363 having at least reinforcing fibers and a cross bar with apertures in view of Burton to better secure the spinal device in use.

Claims 27-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over combination of Sava '286 and Gelbard '363 as applied to claim 26 above, and further in view of Stalcup et al. (US Patent 6,336,930). The combination of Sava '286 and Gelbard '363 disclose the claimed invention except for a support structure having hardenable media. Stalcup et al. discloses a plate structure which is also considered at least a support structure. Stalcup et al. further disclose this plate/support having a

Art Unit: 3733

polymer bag which, when filled and hardened, provides further support to the plate portion (see Col. 1, lines 34-47). It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of the combination of Sava '286 and Gelbard '363 having at least a support structure with hardenable material in view of Stalcup et al. to better secure and orient the device as needed.

Response to Arguments

Applicant's arguments submitted 2/12/2008 with respect to claims 26-30 and 33-35 have been considered but are moot in view of the new ground(s) of rejection.

With regards to the combination of art, it is first noted that the claims as written can be interpreted more broadly. The claim requires both a first and second support structure. As rejected the support structure is noted as the structures of 2B, also drawn in Fig. 1. In this, the first support structure is the cross bar and the second are the bone anchors that have the ability to connect to the spine. The claim also requires a cross bar that attaches to a first and second support structures. Noting the support structures as stated above in Sava, a cross bar (36) connects the first (Gelbard equivalent 28) and second support structure (bone anchors in Gelbard). The cross ties may be the end portions of 36, noted previously individually as 37. This may be done subcutaneously. Sava discloses that the steps of implanting a spinal fixation apparatus is often complicated, often resulting in imprecision. Meticulous care must be taken in the positioning of the securing means and the shaping of the support member. In shaping the support member, the claims require a hardenable material. The material in Sava is fully capable of hardening, even if temporary. To further support an otherwise difficult

Art Unit: 3733

procedure, Gelbard discloses additional support for the spinal fixation apparatus, namely the cross bar and ties as noted. Both prior art references disclose devices that would have been known to one having ordinary skill in the art in combination, allowing for improved stability of the spine during surgery.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES L. SWIGER whose telephone number is (571)272-5557. The examiner can normally be reached on Monday through Friday, 9:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/689,199 Page 6

Art Unit: 3733

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JAMES L SWIGER/ Examiner, Art Unit 3733

/Eduardo C. Robert/

Supervisory Patent Examiner, Art Unit 3733